



This spreadsheet performs screening level calculations to estimate the effect of peeling leaded paint on the average concentration of lead in yard soil  
**3714 Marion Street**

| INPUTS                |   |              |               |
|-----------------------|---|--------------|---------------|
| <b>General</b>        | <b>Variable</b>                                       | <b>Units</b> | <b>Garage</b> |
|                       | Mixing depth in yard                                  | cm           | 2.54          |
|                       | Mixing depth in yard                                  | inches       | 1             |
|                       | Soil density  | g/cm3        | 2.5           |
|                       | RBC in soil   | mg/kg        | 400           |
| <b>House-specific</b> | Bkg in clean fill                                     | mg/kg        | 50            |
|                       |   |              | <b>Small</b>  |
|                       | Area of the exposure unit                             | m2           | 56.85666      |
|                       | Area of the exposure unit                             | ft2          | 612           |
|                       | Concentration of lead in paint                        | mg/cm2       | 10.4          |
|                       | Area of peeling paint                                 | m2           | 4.7376        |
|                       | Area of peeling paint                                 | ft2          | 12            |
| <b>COMPUTATIONS</b>   |   |              |               |
|                       | Mass of lead from paint                               | mg           | 4.9E+05       |
|                       | Volume of soil  | cm3          | 1.4E+06       |
|                       | Mass of soil  | kg           | 3.6E+03       |
|                       | Incremental concentration                             | mg/kg        | 136.5         |
|                       | Maximum acceptable area of peeling leaded paint (m2)  |              | 12.2          |
|                       | Maximum acceptable area of peeling leaded paint (ft2) |              | 130.7         |
| <b>DECISION</b>       |   |              | OK            |

Property No. **512**

Address: **3714 MARION ST** Date: **6-28-05**

Owner: Telephone #:

Inspector/Assessor: **STRATA** CO Certification #: **12860**

Plot Plan:

↑ E

Garage:  $(18+6)(21+6) = 24 \times 27 = 567$

$(18+12)(21+12) = 18(21)$   
 $990 - 378 = 612$

18'

21'

GARAGE

WHITE WINDOW TRIM  
CONTAINS LEAD PAINT

7'6"

52'

#512

NEW PAINT & STUCCO  
EXTERIOR WALLS & TRIM

21'

37TH AVE

← N

MARION STREET

| Exterior Walls |      |           |            | Doors/Trim |      |           |            |
|----------------|------|-----------|------------|------------|------|-----------|------------|
| Material       | Area | Peel/Chip | XRF (Lead) | Material   | Area | Peel/Chip | XRF (Lead) |
| North          |      |           |            |            |      |           |            |
| South          |      |           |            |            |      |           |            |
| East           |      |           |            |            |      |           |            |
| West           |      |           |            |            |      |           |            |
| Total          |      |           |            | Total      |      |           |            |

| Window Trim/Fascia/Soffit |      |           |            | Patio/Decks/Porches |      |           |            |
|---------------------------|------|-----------|------------|---------------------|------|-----------|------------|
| Material                  | Area | Peel/Chip | XRF (Lead) | Material            | Area | Peel/Chip | XRF (Lead) |
| North                     |      |           |            |                     |      |           |            |
| South                     |      |           |            |                     |      |           |            |
| East                      |      |           |            |                     |      |           |            |
| West                      |      |           |            |                     |      |           |            |
| Total                     |      |           |            | Total               |      |           |            |

| Metal Trim/Gutters/Downspouts |      |           |            | Misc Structures/Garage/Fences |           |           |            |
|-------------------------------|------|-----------|------------|-------------------------------|-----------|-----------|------------|
| Material                      | Area | Peel/Chip | XRF (Lead) | Material                      | Area      | Peel/Chip | XRF (Lead) |
| North                         |      |           |            | WOOD TRIM                     | 12' $\pi$ | PEEL      | 10.4       |
| South                         |      |           |            |                               |           |           |            |
| East                          |      |           |            |                               |           |           |            |
| West                          |      |           |            |                               |           |           |            |
| Total                         |      |           |            | Total                         |           |           |            |



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Property # 512 / 3714 Marion St.



New paint & stucco on exterior walls & trim

White wood window trim on garage contains lead paint